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12:13 1

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12:12:16 2

reduced size images in random access

12:12:17 3

memory; correct?

12:12:18 4

A. Yes, that's right.

12:12:19 5

Q. And the '121 patent is not

12:12:21 6

the first disclosure of the storage of

12:12:23 7

reduced size images in a frame store;

12:12:23 8

correct?

12:12:24 9

A. That's correct.

12:12:27 10

Q. Did Dan Beaulier invent the

12:12:30 11

ability to transfer images directly

12:12:33 12

from disk to random access memory?

12:12:36 13

A. No, most certainly not.

12:12:37 14

Q. You agree that was well

12:12:40 15

known at the time that Dan Beaulier

12:12:42 16

filed his patent application?

12:12:42 17

A. Yeah.

12:12:47 18

Q. Did Dan Beaulier invent the

12:12:49 19

ability to transfer images directly

12:12:51 20

from random access memory to a size

12:12:53 21

reducer?

12:12:54 22

MR. BEAMER: Objection;

12:13:05 23

indefinite.

12:13:07 24

A. Well, Mr. Beaulier, I'm

25

sorry, I don't know the exact

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pronunciation of his name, I don't believe that he invented any of these specific steps that you're telling me -- that we're going through right now. However, I do feel that Mr. Beaulier, in my expert opinion, did indeed invent a unique way of -- a unique method of combining these steps and utilizing them to the benefit really of us, you know, in some ways of us all, because it invented and proved browse screen approach.

Q. Let's focus on the specific elements and on the questions I'm asking you. Did Dan Beaulier invent the ability to transfer images directly from random access memory to a size reducer?

A. No, he did not.

Q. Did Dan Beaulier invent the browse feature?

A. No, we know he did not.

Well, again, always with the stipulation that I don't know his

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12:14:13 1 ALAN CAVALLERANO
12:14:18 2 patent portfolio, but if we're talking
12:14:20 3 about specifically from the '121
12:14:23 4 patent, I would say no, he did not.

12:14:28 5 Q. And he was not the first to
12:14:31 6 browse images stored on disk; correct?

12:14:32 7 A. That's correct.

12:14:38 8 Q. Was Dan Beaulier first to
12:14:41 9 output stored images as a mosaic?

12:14:43 10 A. No, he was not.

12:14:46 11 Q. Did Dan Beaulier invent the
12:14:48 12 ability to select a reduced size image
12:14:50 13 in a browse in order to obtain a full
12:14:51 14 size image?

12:14:54 15 A. No. We know that that's
12:14:59 16 also described in the '776 patent.

12:15:02 17 Q. So you agree -- I'm sorry.

12:15:02 18 A. Yes.

12:15:04 19 Q. So you agree that was well
12:15:06 20 known at the time that Dan Beaulier was
12:15:07 21 working on his invention?

12:15:07 22 A. Yes.

12:15:10 23 Q. Did Dan Beaulier invent the
12:15:12 24 ability to maintain a relationship
25 between full and corresponding reduced

12:15:15 1

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12:15:16 2

size images?

12:15:17 3

MR. BEAMER: Objection;

12:15:21 4

vague and indefinite. Lacks

12:15:21 5

foundation.

12:15:27 6

A. Again, I would say he

12:15:29 7

invented a very special way of doing it

12:15:33 8

that improved the browse process.

12:15:35 9

Q. What specifically did Dan

12:15:39 10

Beaulier invent to maintain a

12:15:41 11

relationship between full and

12:15:45 12

corresponding reduced size images?

12:15:50 13

A. He invented a way of on

12:15:54 14

every image capture, generating a

12:15:57 15

reduced size image, transferring it

12:16:00 16

along with the full size image to disk,

12:16:03 17

with a correspondence between the two

12:16:06 18

such that if the reduced size images

12:16:10 19

were browsed, that then one would be

12:16:16 20

able to, number one, browse them in a

12:16:18 21

quicker way than what had been done

12:16:20 22

before, and number two, be able to

12:16:22 23

retrieve the full size image. Because

12:16:25 24

we know that both the reduced size

12:16:25 25

image and full size image resided in

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12:16:34 2

frame store simultaneously. And at

12:16:36 3

that point, most certainly by the time

12:16:38 4

it went to disk, in terms of the

12:16:40 5

overall understanding of the '121

12:16:44 6

patent, that relationship and

12:16:46 7

correspondence needed to be there.

12:16:49 8

Q. What specifically about

12:16:53 9

Mr. Beaulier's system allowed the

12:16:55 10

system to maintain a relationship

12:16:59 11

between the full size and its

12:17:03 12

corresponding reduced size image?

12:17:09 13

A. Well, we can look at, within

12:17:14 14

the claim elements themselves, back to

12:17:20 15

the word of, for example, selective

12:17:24 16

transfer, where that would most

12:17:29 17

certainly lead one to understand that

12:17:33 18

if you're going to be doing a selective

12:17:36 19

transfer, you need to have some type of

12:17:37 20

a relationship.

12:17:39 21

Q. Okay, I'm not asking you

12:17:40 22

right now whether there was such a

12:17:43 23

relationship in the patent. My

12:17:46 24

question to you is, what specifically

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about Dan Beaulier's invention enabled

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his system to maintain a relationship between the full size image and its corresponding reduced size image?

A. Well, some of the -- one thing right from the start would be the fact that the reduced size image is generated automatically from the full sized image for all images that are input to the machine, and they reside in RAM together, for them to be together there is already the notion of some type of a relationship. And that then both of those are then connected directly to the disk store. And at that point there would be a direct relationship between the two.

Q. Just the fact that they are both stored on disk means that there is a relationship between the full and reduced?

A. The fact that they were captured, that the reduced size image was generated upon -- for every input, for every input frame, a reduced size

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image was generated. And would then need to reside in the frame store simultaneously.

In terms of the overall reading of the patent, one would understand that when you transfer that reduced size frame and full size frame to the bulk store, that you would naturally need to maintain a direct relationship.

Q. Right. And my question to you is how did the system allegedly invented by Dan Beaulier, maintain that relationship between full and reduced size images?

MR. BEAMER: Objection; asked and answered.

A. Well, there was, if you look at the figure, there was a CPU, there was a control means, and that control means was able to control the transfer of the data and keep track of this association.

Q. What specifically -- strike

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that.

How specifically did the CPU keep track of the association between the full size image and the reduced size image in Dan Beaulier's invention?

A. Well, what it would do, what it could do, this is an embodiment of the idea. I see that the CPU, again, I'm looking at the figure, I see the CPU is connected to the frame store, it's connected to the disk store. What it could do is simply keep track of -- keep track of what it's doing. Since it's automatically generating the reduced size image and full size image for every input frame, it would be able to, if the registers or whatever mechanism, computer mechanism, it would be able to keep track of whatever -- whatever it is. The frames could be given a number, for example, and a reduced size frame could be given an associated number. And both could be stored on disk and identified

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12:21:23 2 accordingly.

12:21:25 3 Q. Okay. And so if the full
12:21:27 4 size image is given a number and the
12:21:30 5 reduced size image is given a
12:21:33 6 corresponding number, that would
12:21:35 7 maintain the relationship that you've
12:21:37 8 described; is that your expert opinion?

12:21:38 9 MR. BEAMER: Objection;
12:21:42 10 vague, overly broad, contradicts the
12:21:45 11 previous testimony.

12:21:50 12 A. I'm sorry, could the
12:21:52 13 question please be repeated?

12:21:53 14 Q. If the full size image is
12:21:55 15 given a number and the reduced size
12:21:58 16 image is given a corresponding number,
12:21:59 17 that would maintain the relationship
12:22:02 18 that you've described; is that your
12:22:04 19 expert opinion?

12:22:05 20 MR. BEAMER: Same objection.

12:22:08 21 A. It could be used to indeed
12:22:12 22 maintain a relationship. And in the
12:22:23 23 '121 patent, that relationship is
12:22:25 24 automatically established and
25 maintained.

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is novel or unique. It's the way that the entire operation was taking place, the way the entire system was operating that was unique.

Q. Okay. But the particular operation of maintaining a relationship between a full size image and a reduced size image would have been obvious to one skilled in the art as of the time the '121 patent was filed; correct?

MR. BEAMER: Objection; vague, overly broad, incomplete hypothetical.

A. The idea of having some type of a relationship had to already be known. There were browse stream, editing systems, that already allowed one to browse. And if one were to browse, it would be useless to simply have a browse and not be able to in some way get back to your original, the image that you're looking for. That was prior art. That is known.

However, at a system level,

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14:25:36 2

understanding.

14:25:38 3

Q. Is it fair to say that

14:25:39 4

Mr. Taylor is more knowledgeable about

14:25:41 5

the Paint Box than you are?

14:25:42 6

A. I would expect that to be

14:25:43 7

the case.

14:25:46 8

Q. Have you ever observed a

14:25:48 9

Quantel Paint Box in person?

14:25:52 10

A. I've seen a demo tape, but I

14:25:54 11

have not actually worked with the

14:25:58 12

Quantel Paint Box. However, I have, in

14:26:04 13

working for CBS, I have at least been

14:26:06 14

somewhat familiarized with different

14:26:09 15

types of equipment that's utilized,

14:26:13 16

used in a studio, and also just from my

14:26:16 17

general experiences over the years,

14:26:18 18

over the many years working in the area

14:26:23 19

of video, I have been exposed to image

14:26:27 20

processing type devices.

14:26:30 21

And in fact I've actually

14:26:32 22

been in charge of projects and programs

14:26:38 23

at Philips where we had image

14:26:41 24

processors that were -- that performed

25

some of the functions that one would --

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14:26:50 2 that we know that the Paint Box could
14:26:52 3 perform. And from that I do have at
14:26:54 4 least a good amount of familiarity.

14:26:56 5 Q. Sir, you referred to a
14:26:58 6 videotape in that answer. Is that the
14:27:00 7 videotape that Mr. Taylor prepared of
14:27:01 8 the Paint Box that you're referring to?

14:27:04 9 A. Yes, I believe that's
14:27:04 10 correct.

14:27:07 11 Q. Other than Mr. Taylor's
14:27:10 12 videotape, have you ever observed the
14:27:11 13 Paint Box?

14:27:12 14 A. No, I have not.

14:27:14 15 Q. Have you ever been in the
14:27:16 16 same room with a Quantel Paint Box?

14:27:21 17 A. I could say probably,
14:27:26 18 probably not. I have been -- I have
14:27:28 19 been in different studios at different
14:27:31 20 times, and it's possible -- or at
14:27:33 21 different trade shows over the years,
14:27:37 22 and it's possible that I was. But not
14:27:39 23 that -- not to the extent that I was
14:27:41 24 aware that there was a Paint Box and I
25 went over to it and started to use it.

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14:27:44 2

Q. Other than Mr. Taylor's

14:27:47 3

videotape, have you ever observed the

14:27:50 4

Quantel Paint Box in operation?

14:27:52 5

A. Again, not that I'm aware

14:27:55 6

of. Unless it was used as a part of

14:27:57 7

something that I was watching on

14:28:00 8

television or something of that nature.

14:28:01 9

Q. I take it then that you've

14:28:03 10

never operated the Quantel Paint Box?

14:28:04 11

A. That's correct.

14:28:05 12

Q. And you've never conducted

14:28:07 13

a detailed inspection of the Quantel

14:28:08 14

Paint Box?

14:28:12 15

A. Detailed inspection of the

14:28:14 16

actual physical unit itself, that's

14:28:16 17

correct. I have reviewed materials

14:28:17 18

related to the Paint Box.

14:28:19 19

Q. So it's correct that you've

14:28:21 20

never conducted a detailed inspection

14:28:24 21

of the actual Quantel Paint Box?

14:28:24 22

A. That's correct.

14:28:26 23

Q. And you've never inspected

14:28:30 24

the circuitry of an actual Quantel

25

Paint Box?

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14:28:33 2

A. Of an actual Paint Box,

14:28:33 3

that's correct.

14:28:35 4

Q. Did you ask your lawyers if

14:28:38 5

you could inspect the Paint Box that is

14:28:41 6

the subject of Mr. Taylor's video?

14:28:43 7

A. No, I have not.

14:28:45 8

Q. Did they tell you that that

14:28:47 9

system was made available for

14:28:49 10

inspection in this litigation?

14:28:54 11

A. They may have. I don't

14:28:58 12

recall. I can't say that I recall.

14:29:00 13

Q. Do you think it would have

14:29:03 14

been helpful to you to have inspected

14:29:04 15

the Paint Box before rendering an

14:29:08 16

opinion on the Paint Box?

14:29:08 17

MR. BEAMER: Objection;

14:29:10 18

vague.

14:29:16 19

A. Generally I would say that

14:29:19 20

my understanding of the device, my many

14:29:21 21

years of experience in the field of

14:29:28 22

video, would lead me to feel that I

14:29:30 23

more or less know what it is, I can

14:29:33 24

look at the manuals that are provided

25

and have a good understanding of what

29:35 1 ALAN CAVALLERANO
14:29:40 2 the product is, what the product does.
14:29:43 3 Q. Because you're comfortable
14:29:45 4 rendering an opinion on the Quantel
14:29:49 5 Paint Box without ever having actually
14:29:51 6 seen the Quantel Paint Box; is that a
14:29:51 7 fair statement?

14:29:53 8 A. Yes, that's a fair
14:29:53 9 statement.

14:29:54 10 Q. Are you an expert on the
14:29:55 11 Quantel Paint Box?

14:29:56 12 MR. BEAMER: Objection;
14:29:56 13 asked and answered.

14:29:58 14 A. Well, as we discussed, as I
14:30:00 15 presented this morning, I am an expert
14:30:02 16 in the field of video. A person who's
14:30:05 17 had many years of experience with
14:30:09 18 video. And as such I am an expert with
14:30:13 19 video type products. And that's what
14:30:15 20 my area of expertise is in.

14:30:16 21 Q. And my question to you,
14:30:19 22 sir, is, are you specifically an expert
14:30:23 23 on the Quantel Paint Box?

14:30:24 24 MR. BEAMER: This was asked
25 and answered this morning.

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14:30:34 2

A. I consider myself to be an

14:30:36 3

expert on the product from my readings

14:30:38 4

of the material and my general

14:30:43 5

understanding of the video field.

14:30:45 6

Q. And the first time you read

14:30:47 7

any detailed materials about the Paint

14:30:50 8

Box was February 2006?

14:30:52 9

A. That's correct. Sometime in

14:30:53 10

February.

14:30:57 11

Q. So you've been familiar

14:30:59 12

with the details regarding the Paint

14:31:02 13

Box for a little over three months?

14:31:03 14

A. That's correct.

14:31:05 15

Q. And it's your belief that

14:31:07 16

that makes you an expert on the Quantel

14:31:08 17

Paint Box?

14:31:09 18

MR. BEAMER: Objection;

14:31:20 19

asked and answered, argumentative.

14:31:22 20

A. Again, as I said, I feel

14:31:24 21

that I am an expert in the field of

14:31:26 22

video, and I have a lot of familiarity

14:31:28 23

working with different types of video

14:31:30 24

equipment. And the Paint Box would

25

fall into that category, so I would

31:32 1

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14:31:35 2

expect that I would feel comfortable

14:31:37 3

qualifying myself as such.

14:31:41 4

Q. Do you agree that

14:31:43 5

Mr. Taylor is an expert on the Quantel

14:31:44 6

Paint Box?

14:31:44 7

A. Yes.

14:31:45 8

MR. BEAMER: Objection;

14:31:48 9

calls for speculation.

14:31:50 10

Q. Sir, I want to ask you some

14:31:54 11

questions about the Paint Box system as

14:31:57 12

sold and demonstrated in March, April

14:32:00 13

'82, that's the subject of Mr. Taylor's

14:32:03 14

expert report. You are familiar with

14:32:03 15

that report?

14:32:04 16

A. Yes, I am.

14:32:09 17

Q. Would you agree that the

14:32:11 18

Paint Box could receive the video from

14:32:12 19

an external source?

14:32:13 20

A. Yes.

14:32:17 21

Q. Do you agree that the Paint

14:32:18 22

Box could receive video data

14:32:21 23

representing full size images?

14:32:22 24

A. Yes.

25

Q. Do you agree that the Paint

32:25

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14:32:28

2

Box had multiple frame stores?

14:32:32

3

A. Yes. I know that there were

14:32:34

4

multiple frame stores, yes, that's

14:32:34

5

correct.

14:32:36

6

Q. And those frame stores were

14:32:38

7

implemented with random access memory;

14:32:39

8

correct?

14:32:41

9

A. Yes, that would be typical

14:32:44

10

that a frame store would be implemented

14:32:45

11

that way.

14:32:46

12

Q. And do you agree that

14:32:48

13

either of those frame stores could

14:32:50

14

store a full size image?

14:32:52

15

A. Yes.

14:32:54

16

Q. Do you agree that the Paint

14:32:56

17

Box had at least one disk?

14:32:58

18

A. Yes, I'm aware of that.

14:33:00

19

Q. And the disk could store

14:33:01

20

video images?

14:33:03

21

A. Yes, I'm aware of that.

14:33:05

22

Q. It could store full size

14:33:07

23

video images?

14:33:09

24

A. Yes, it could store full

25

size images.

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33:10 1

14:33:14 2

Q. And the Paint Box could

14:33:17 3

transfer full size images from one of

14:33:20 4

its frame stores to disk for storage;

14:33:22 5

correct?

14:33:23 6

A. Yes, that's also correct.

14:33:25 7

Q. Do you agree that the Paint

14:33:27 8

Box had a size reducer?

14:33:28 9

A. Yes, that's correct.

14:33:30 10

Q. And do you agree that the

14:33:32 11

Paint Box with the use of its size

14:33:34 12

reducer could generate reduced size

14:33:35 13

images?

14:33:45 14

A. The Paint Box was able to

14:33:49 15

reduce a full size image that was

14:33:56 16

pulled off the disk and put it into,

14:33:59 17

I'll call it a second frame store,

14:34:04 18

where it would reside. However, at

14:34:08 19

that point that reduced sized image

14:34:10 20

that was only there in that second

14:34:15 21

frame store would then be, I guess you

14:34:20 22

would stick it on to the -- into the

14:34:23 23

main frame store where that reduced

14:34:29 24

sized picture, from the full size image

25

that was pulled off the disk, would

34:31 1

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14:34:37 2

then reside as one composite image.

14:34:39 3

That much I am aware of, yeah.

14:34:41 4

Q. Let's put aside for a

14:34:42 5

moment what happens when you stick the

14:34:47 6

image down. We will get to that. Do

14:34:51 7

you agree that the Paint Box could

14:34:55 8

generate reduced size images?

14:34:56 9

MR. BEAMER: Asked and

14:34:56 10

answered.

14:34:59 11

A. Yes, as I stated, that's

14:34:59 12

correct.

14:35:01 13

Q. Do you agree that the Paint

14:35:03 14

Box could automatically generate

14:35:05 15

reduced size images?

14:35:06 16

MR. BEAMER: Objection;

14:35:07 17

vague.

14:35:11 18

A. Well, automatically, under

14:35:13 19

control of a user going through a

14:35:17 20

series of steps.

14:35:19 21

Q. Well, if the Paint Box

14:35:22 22

browse were used to browse full size

14:35:27 23

images stored on disk, didn't that

14:35:29 24

browse feature automatically generate

25

reduced size images?

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14:35:33 2 A. It created reduced size
14:35:36 3 images from the full size images that
14:35:38 4 were on disk that would go through the
14:35:41 5 size reducer and then become a part of
14:35:46 6 the displayed frame.

14:35:49 7 Q. Okay. And in the '121
14:35:51 8 patent, the images are also passed
14:35:54 9 through a size reducer to automatically
14:35:56 10 generate the reduced size images,
14:35:58 11 according to your expert opinion;
14:35:58 12 correct?

14:35:59 13 MR. BEAMER: I'm sorry,
14:36:12 14 could you read that back.

14:36:13 15 (Record read as requested.)

14:36:14 16 MR. BEAMER: Objection;
14:36:15 17 vague.

14:36:24 18 A. I'm sorry, could you please
14:36:37 19 repeat the question?

14:36:38 20 (Record read as requested.)

14:36:46 21 A. Yes, the '121 patent, in the
14:36:49 22 '121 patent, indeed full size images
14:36:51 23 are passed through the size reducer to
14:36:53 24 create reduced size images.

25 Q. Now, you agree that the

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Quantel Paint Box, when it browsed full size images stored on disk, would automatically generate reduced size images; correct?

MR. BEAMER: Asked and answered.

A. Yes. And that in fact would be what a normal browse for a, let's say for a still store, that would be the normal mode of browsing. You would invoke the browse and then that would occur.

Q. So we both agree that the Paint Box could automatically generate reduced size images; correct?

MR. BEAMER: Asked and answered.

A. Yes. As I stated, it can reduce -- it can provide and generate reduced size images, taking images, full size images off the disk and putting them into the output frame store.

Q. And the Paint Box could

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14:37:56 2

also generate reduced size images at

14:37:59 3

the user's option; correct?

14:38:05 4

A. Could you, when you say the

14:38:11 5

user's option, I need to understand

14:38:15 6

more what -- I mean, user's option

14:38:20 7

would be I want to see a browse screen.

14:38:23 8

I'd like to browse these full size

14:38:28 9

images. And you invoke the browse and

14:38:32 10

the Paint Box would create the reduced

14:38:33 11

size image.

14:38:34 12

Q. All right. The user could

14:38:38 13

use the Paint Box cut and paste

14:38:41 14

functionality to generate reduced size

14:38:44 15

images; correct?

14:38:48 16

A. No, that's not correct.

14:38:50 17

Q. Okay. So it's your expert

14:38:52 18

opinion that the cut and paste

14:38:54 19

functionality of the Paint Box could

14:38:57 20

not generate reduced size images?

14:39:01 21

A. That's correct. Because in

14:39:07 22

order to -- when using the cut and

14:39:09 23

paste function, we are simply creating

14:39:54 24

a cutout of our full size image.

25

Q. Could the Paint Box

ALAN CAVALLERANO

39:56 1
14:39:58 2 generate a reduced size image that was
14:40:17 3 a small version of the full size image?

14:40:19 4 THE WITNESS: I'm sorry,
14:40:21 5 could you please read back the
14:40:29 6 question.

14:40:29 7 (Record read as requested.)

14:40:31 8 A. Well, as we've already
14:40:33 9 discussed for the browse screen, we
14:40:37 10 know that the full size image stored on
14:40:40 11 disk can go through the size reducer
14:40:45 12 and that that resulting reduced size
14:40:48 13 image then becomes a part of a browse
14:40:57 14 screen. And that that's a reduced size
14:40:59 15 image that the Paint Box is able to
14:41:00 16 create that way.

14:41:02 17 Q. Right. So we both agree
14:41:03 18 that the Paint Box could use its size
14:41:07 19 reducer to generate a reduced size
14:41:07 20 image; correct?

14:41:10 21 A. Yes, in the way that -- in
14:41:12 22 the way that I've described, yes.

14:41:14 23 Q. And that reduced size image
14:41:16 24 could be stored in either of the frame
25 stores; correct?

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14:41:18 1 ALAN CAVALLERANO

14:41:20 2 MR. BEAMER: Objection.

14:41:29 3 A. That reduced sized image
14:41:31 4 most certainly could be stored in the
14:41:35 5 output frame store. And it's
14:41:38 6 temporarily present in the second frame
14:41:39 7 store.

14:41:43 8 Q. And that reduced size image
14:41:45 9 could be stored in the random access
14:41:47 10 memory of the Paint Box; correct?

14:41:49 11 A. Yes, that's correct, the
14:41:54 12 frame store is the random access
14:41:55 13 memory.

14:41:56 14 Q. And the reduced size image
14:41:58 15 could be stored in one frame store
14:42:01 16 while a full size image was in the
14:42:02 17 other frame store; correct?

14:42:03 18 MR. BEAMER: Objection;
14:42:16 19 vague.

14:42:19 20 A. When we say stored, it's
14:42:21 21 stored temporarily so that it can then
14:42:26 22 be stuck on to the output frame store.

14:42:28 23 Q. But regardless of whether
14:42:31 24 in your opinion it's temporary or not,
25 you agree that the Paint Box could

42:33 1

ALAN CAVALLERANO

14:42:36 2

store a reduced size image in one frame

14:42:39 3

store and a full size image in another

14:42:40 4

frame store; correct?

14:42:41 5

MR. BEAMER: Objection;

14:42:45 6

vague, asked and answered.

14:42:49 7

A. As I stated, the Paint Box

14:42:56 8

was capable of generating a reduced

14:42:59 9

size image under manual control of the

14:43:04 10

user, and having that reduced size

14:43:07 11

image reside temporarily in the second

14:43:17 12

frame store while something else is

14:43:20 13

present in the display frame store.

14:43:23 14

Q. So the Paint Box could

14:43:28 15

store a full and a reduced size image

14:43:30 16

in random access memory simultaneously;

14:43:31 17

correct?

14:43:31 18

MR. BEAMER: Objection;

14:43:35 19

vague, incomplete hypothetical.

14:43:39 20

A. It could only store it as

14:43:45 21

part of an overall operation that the

14:43:48 22

user is invoking. It could not store

14:43:51 23

it in the same sense as being stored

14:43:55 24

simultaneously in the '121 patent. I

25

can envision many instances where

44:02 1 ALAN CAVALLERANO

14:44:04 2 anything at all can be in two separate
14:44:07 3 frame stores, nothing is necessarily
14:44:12 4 precluding that. But it's a matter of
14:44:19 5 the entire operation and how that
14:44:23 6 reduced size image got there, that's of
14:44:25 7 significance to me with regard to my
14:44:27 8 analysis of that.

14:44:29 9 Q. But you agree, sir, do you
14:44:31 10 not, that the Paint Box could
14:44:35 11 simultaneously store one full size
14:44:37 12 image and one reduced size image in its
14:44:40 13 frame stores simultaneously; correct?

14:44:41 14 MR. BEAMER: Asked and
14:44:42 15 answered.

14:44:43 16 MR. SUMMERSGILL: Strike
14:44:46 17 that. Because I said simultaneously
14:44:48 18 twice. Let me try it again.

14:44:49 19 THE WITNESS: Okay.

14:44:50 20 Q. You agree, sir, do you not,
14:44:52 21 that the Paint Box could store a full
14:44:55 22 size image and a reduced size image in
14:44:57 23 its frame stores simultaneously;
14:44:58 24 correct?

25 MR. BEAMER: Asked and

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44:59

1

ALAN CAVALLERANO

14:45:02

2

answered, vague.

14:45:06

3

A. As I've stated, through a

14:45:08

4

particular series of steps, it's

14:45:11

5

possible to have the reduced size image

14:45:14

6

temporarily in one frame store. And

14:45:18

7

the full size counterpart present in

14:45:22

8

the other, the display frame store.

14:45:23

9

Q. Now, do you agree that the

14:45:25

10

Paint Box could output images from disk

14:45:27

11

to its frame stores?

14:45:31

12

A. Yes.

14:45:34

13

Q. And it could output full

14:45:35

14

size images?

14:45:36

15

A. Yes, that's correct.

14:45:40

16

Q. And it could output images

14:45:43

17

from disk upon a user's command?

14:45:46

18

A. Yes, I believe that's

14:45:46

19

correct.

14:45:56

20

Q. Do you agree that the Paint

14:45:59

21

Box frame stores had input ports?

14:45:59

22

A. Yes.

14:46:01

23

Q. Do you agree that the Paint

14:46:04

24

Box frame stores had separate output

25.

ports?

53:07 1

ALAN CAVALLERANO

14:53:15 2

the input port. And the element 1 of

14:53:25 3

claim 8 is simply telling me that I

14:53:27 4

need to be able to do that to the input

14:53:28 5

port of the device.

14:53:29 6

Q. But you know that just

14:53:31 7

because it's random access memory;

14:53:33 8

correct?

14:53:34 9

MR. BEAMER: Objection;

14:53:41 10

argumentative.

14:53:43 11

A. Yes. Because it's random

14:53:45 12

access memory, I would expect it to

14:53:47 13

have an input port and an output port.

14:53:49 14

Q. So what does the addition

14:53:52 15

of the words an input port and an

14:53:54 16

output port add to the meaning of the

14:53:56 17

first element of claim 8?

14:53:58 18

MR. BEAMER: Asked and

14:53:58 19

answered.

14:54:00 20

A. As I've said, it doesn't

14:54:02 21

have any particular significance to me.

14:54:05 22

Q. Now, in any event, you

14:54:12 23

agree that the Paint Box has the input

14:54:16 24

port and an output port requirement

25.

that's set forth in the first element

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54:18 1 ALAN CAVALLERANO

14:54:20 2 of claim 8; correct?

14:54:24 3 A. Yes. As would many,

14:54:27 4 basically every or many other such

14:54:28 5 devices. Yes, that's correct.

14:54:30 6 Q. You agree that the Paint

14:54:31 7 Box had a computer that controlled the

14:54:33 8 system functions?

14:54:33 9 A. Yes.

14:54:36 10 Q. Controlled the transfer of

14:54:39 11 images from RAM to disk?

14:54:41 12 A. Yes, that's correct.

14:54:43 13 Q. The Paint Box computer

14:54:44 14 controlled the generation of reduced

14:54:47 15 size images?

14:54:51 16 A. Through operator commands,

14:54:52 17 yes, that's correct.

14:54:55 18 Q. And the Paint Box computer

14:55:09 19 controlled the transfer of reduced size

14:55:12 20 images from the Paint Box size reducer

14:55:15 21 to random access memory; correct?

14:55:17 22 A. Yes, that's correct.

14:55:18 23 Q. Do you agree that the

14:55:21 24 transfer of reduced size images from

25. the size reducer to Paint Box random

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55:25

1

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14:55:27

2

access memory was direct?

14:55:29

3

A. I'm sorry, could you please

14:55:29

4

read back the question?

14:55:31

5

Q. Do you agree that the

14:55:34

6

transfer of reduced size images from

14:55:37

7

the size reducer to random access

14:55:41

8

memory was direct in the Quantel Paint

14:55:41

9

Box?

14:55:44

10

A. I believe that the image

14:55:50

11

from the size reducer would, in the

14:55:53

12

case of the browse, those images would

14:55:56

13

go directly to the random access

14:56:02

14

memory. And in the case we were

14:56:05

15

describing before, where the user

14:56:11

16

invokes its size reduction, yes, that

14:56:12

17

that is the case.

14:56:16

18

Q. Okay. So reduced size

14:56:17

19

images in the Paint Box could be

14:56:19

20

transferred directly from the size

14:56:22

21

reducer to random access memory;

14:56:28

22

correct?

14:56:30

23

A. Yes. And that would be --

14:56:33

24

we know that from the prior art as

25

well. For example, in the '776 patent,

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56:39 1

ALAN CAVALLERANO

14:56:48 2

we know that -- I'm sorry, we were

14:56:50 3

talking about going from the disk to

14:56:52 4

the random access memory?

14:56:53 5

Q. I was asking you about the

14:56:56 6

transfer from size reducer to random

14:57:02 7

access memory.

14:57:04 8

A. Yes, we know that, as in the

14:57:12 9

case of the figure 19 in the -- I just

14:57:14 10

want to make sure, I'm just looking at

14:57:20 11

the figure. Figure 18. We know that

14:57:23 12

we have a direct transfer from -- this

14:57:25 13

is in the '776 patent, of the size

14:57:29 14

reducer to the random access memory at

14:57:30 15

the frame store, yes, that's correct.

14:57:32 16

Q. So do you agree that the

14:57:34 17

Quantel Paint Box could transfer images

14:57:38 18

directly from the size reducer to the

14:57:39 19

random access memory?

14:57:40 20

A. Yes, that's correct.

14:57:41 21

Q. And do you agree that the

14:57:43 22

Paint Box could transfer images

14:57:48 23

directly from the disk to random access

14:57:49 24

memory?

25

MR. BEAMER: Read that back,

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1 10:17 1

ALAN CAVALLERANO

15:00:18 2

that the Paint Box filter card

15:00:21 3

contained random access memory?

15:00:21 4

MR. BEAMER: Objection;

15:00:22 5

vague.

15:00:24 6

A. I believe it did. I would

15:00:27 7

need to look at the manual to be sure

15:00:31 8

that that's the type of memory that it

15:00:31 9

had.

15:00:35 10

Q. Was the transfer from disk

15:00:38 11

to the random access memory of the

15:00:41 12

filter card a direct transfer?

15:00:45 13

A. It's my understanding that

15:00:49 14

it would be.

15:00:53 15

Q. Now, the Paint Box frame

15:00:57 16

store could also output video images

15:00:59 17

for display on the Paint Box frame

15:01:00 18

store; correct?

15:01:01 19

A. Yes, that's right.

15:01:04 20

Q. The Paint Box with the use

15:01:08 21

of its combiner, could access a reduced

15:01:10 22

size image stored at one frame store

15:01:13 23

and a full size image stored at another

15:01:21 24

frame store simultaneously; correct?

25

THE WITNESS: I'm sorry,

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15:07:40 1

ALAN CAVALLERANO

15:07:44 2

access one reduced size image and one

15:07:46 3

full size image simultaneously;

15:07:54 4

correct?

15:07:56 5

A. Yes, as I would expect.

15:07:57 6

Q. And you agree --

15:07:58 7

MR. BEAMER: Are you done

15:07:59 8

with your answer?

15:08:00 9

A. As I would expect for

15:08:03 10

products of this nature, it most

15:08:05 11

certainly would be possible to have,

15:08:08 12

and I would expect, some type of a

15:08:10 13

combiner circuit that would perform

15:08:12 14

that type of an operation.

15:08:15 15

Q. So that was well known in

15:08:15 16

the art?

15:08:17 17

A. Yes, that was well known in

15:08:17 18

the art.

15:08:19 19

Q. Now, you agree that the

15:08:21 20

Paint Box had a browse feature.

15:08:24 21

A. Yes, I'm familiar with that.

15:08:25 22

Q. And you agree that the

15:08:27 23

Paint Box could store multiple reduced

15:08:31 24

size images in random access memory?

25

MR. BEAMER: Read that back,

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16:09:35

1

ALAN CAVALLERANO

16:09:36

2

Q. Sir, before the break you

16:09:38

3

were describing the process by which an

16:09:41

4

operator using the Paint Box could put

16:09:45

5

a rectangle around the reduced size

16:09:47

6

image in the frame store and save only

16:09:51

7

the pixels corresponding to that image

16:09:53

8

to disk; is that correct?

16:09:59

9

A. I was referring to using the

16:10:02

10

rectangle function to select those

16:10:08

11

pixels which were from the -- which

16:10:11

12

were from the full size image which was

16:10:13

13

reduced and stuck on to the full size

16:10:16

14

image to create a new composite full

16:10:18

15

size image and using the rectangle

16:10:19

16

function for that operation, yes.

16:10:21

17

Q. When the operator places

16:10:26

18

the rectangle over the pixels that

16:10:31

19

represent the reduced size image, or

16:10:33

20

what you call part of the full size

16:10:35

21

image, only the pixels within that

16:10:38

22

rectangle are saved to disk; correct?

16:10:40

23

MR. BEAMER: Objection.

16:10:44

24

A. That's my understanding.

25

Q. So assuming that you

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ALAN CAVALLERANO

10:47 1
16:10:50 2 generated a reduced size image using
16:10:54 3 the '121 patent that started on disk,
16:10:56 4 then assuming you've taken the same
16:11:00 5 full size image and generated a reduced
16:11:02 6 size image on the Paint Box and used
16:11:05 7 the rectangle function to store the
16:11:07 8 pixels corresponding to that image to
16:11:11 9 the disk, at that point is there any
16:11:14 10 difference between the pixels of the
16:11:19 11 reduced sized image in the '121 system
16:11:22 12 disk versus the pixels of the reduced
16:11:25 13 sized image on a Paint Box disk?

16:11:26 14 MR. BEAMER: Objection;
16:11:32 15 incomplete hypothetical.

16:11:34 16 A. Well, again, if we're
16:11:37 17 focusing on strictly the pixel data and
16:11:40 18 not the process that got us there, and
16:11:45 19 if I were to also disregard the
16:11:48 20 potential that the rectangle did not
16:11:51 21 exactly register over what you're
16:11:53 22 calling the reduced sized image and
16:11:56 23 what I'm calling certain pixel values
16:11:59 24 within the full size image, there is no
25 reason for me to believe that there

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12:00 1

ALAN CAVALLERANO

16:12:03 2

would be any difference or significant

16:12:07 3

difference, other than as well what we

16:12:10 4

had already discussed about the quality

16:12:13 5

or operations within the size reducer,

16:12:15 6

as to how it actually performed that

16:12:19 7

generation of the reduced sized image.

16:12:22 8

Q. So putting aside how you --

16:12:23 9

strike that.

16:12:25 10

Putting aside how an

16:12:27 11

operator got to this point, a reduced

16:12:29 12

sized image stored on the Paint Box

16:12:32 13

disk is the same as a reduced sized

16:12:34 14

image stored on the '121 system disk;

16:12:35 15

is that correct?

16:12:36 16

MR. BEAMER: Objection;

16:12:38 17

asked and answered.

16:12:40 18

A. As I've stated, that is

16:12:45 19

correct. I would not particularly

16:12:48 20

characterize what's being stored in the

16:12:50 21

disk of the Paint Box as being a

16:12:53 22

reduced size image. But if I were to

16:12:56 23

do a comparison of that particular

16:13:00 24

cutout that's stored on the disk of the

25

Paint Box and compare it to the actual

13:05 1

ALAN CAVALLERANO

16:13:08 2

reduced size image that would be

16:13:11 3

resulting from the '121 patent, I would

16:13:14 4

expect those pixel values to correlate.

16:13:17 5

Q. Now, you mentioned the

16:13:20 6

possibility that the operator in

16:13:23 7

placing the rectangle function over the

16:13:27 8

reduced size image could miss and

16:13:30 9

capture additional pixels. Do you

16:13:31 10

recall that?

16:13:32 11

A. Yes, that's correct.

16:13:37 12

Q. If the operator misses with

16:13:41 13

a rectangle and captures -- strike

16:13:41 14

that.

16:13:43 15

If the operator misses with

16:13:47 16

the rectangle and slices out some of

16:13:51 17

the pixels of that reduced size image

16:13:56 18

when he is storing that image to disk,

16:14:00 19

is it the same image as what's been

16:14:01 20

stored on the '121 disk?

16:14:02 21

MR. BEAMER: Objection;

16:14:14 22

vague, incomplete hypothetical.

16:14:16 23

A. I'm sorry, could you please

16:14:23 24

repeat the question?

25

Q. In paragraph 139 of your

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50:39 1

ALAN CAVALLERANO

16:50:42 2

reduced size images are generated from

16:50:44 3

full size images that have already been

16:50:45 4

stored on disk; correct?

16:50:47 5

A. Well, I don't view the

16:50:54 6

cutouts as being reduced sized images.

16:50:56 7

Those are cutouts that are stored in

16:50:57 8

the Paint Box.

16:50:58 9

Q. Let's assume for a moment

16:51:01 10

that the cutouts are reduced sized

16:51:04 11

images. With that assumption in mind,

16:51:07 12

the Paint Box generation of reduced

16:51:10 13

size images from full size images that

16:51:12 14

have been stored on disk is covered by

16:51:15 15

the invention of the '121 patent;

16:51:16 16

correct?

16:51:17 17

MR. BEAMER: Objection;

16:51:18 18

incomplete hypothetical and lacks

16:51:25 19

foundation.

16:51:27 20

A. The '121 patent teaches an

16:51:36 21

entire process whereby we need to --

16:51:43 22

whereby we need to go directly from the

16:51:49 23

disk to the frame store without passing

16:51:53 24

through the size reducer. So I don't

25

believe that the scenario you just

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16:59:27 1 ALAN CAVALLERANO

16:59:30 2 Q. And that scenario,
16:59:32 3 according to the expert opinion set
16:59:34 4 forth in your expert report, is covered
16:59:37 5 by the invention of the '121 patent;
16:59:37 6 correct?

16:59:38 7 A. That's correct.

16:59:41 8 Q. So the '121 patent does not
16:59:43 9 require the generation of reduced size
16:59:46 10 images prior to the storage of the full
16:59:49 11 size image on disk; does it?

16:59:50 12 MR. BEAMER: Objection;
16:59:51 13 lacks foundation.

16:59:54 14 A. No, it does not.

16:59:57 15 Q. Now, sir, we've discussed
17:00:00 16 the Paint Box browse earlier. Do you
17:00:01 17 recall that?

17:00:02 18 A. Yes.

17:00:04 19 Q. You agree that the Paint
17:00:05 20 Box had a browse feature?

17:00:06 21 A. Yes, that's correct.

17:00:12 22 Q. And you agree that the
17:00:14 23 Paint Box with the use of its cut and
17:00:17 24 paste function could create cutouts?

25 A. That's correct.

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00:18 1

ALAN CAVALLERANO

17:00:20 2

Q. And the Paint Box could

17:00:25 3

reduce the size of those cutouts;

17:00:25 4

correct?

17:00:25 5

A. That's correct.

17:00:27 6

Q. And the Paint Box could

17:00:31 7

store those reduced size cutouts to

17:00:31 8

disk; correct?

17:00:34 9

MR. BEAMER: Objection.

17:00:37 10

A. The Paint Box could store

17:00:41 11

cutouts to disk.

17:00:42 12

Q. And the Paint Box could

17:00:45 13

then browse cutouts that were stored on

17:00:46 14

disk; correct?

17:00:47 15

A. Yes, that's correct.

17:00:49 16

Q. And it could browse reduced

17:00:52 17

size cutouts that were stored on disk;

17:00:53 18

correct?

17:00:54 19

A. Yes, that's my

17:01:01 20

understanding.

17:01:03 21

Well, when we say reduced

17:01:08 22

sized cutouts, though, what we're

17:01:14 23

talking about are cutouts. They are

17:01:16 24

still cutouts.

25

Q. Well, cutouts can be

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01:17 1

ALAN CAVALLERANO

17:01:19 2

reduced in size; correct?

17:01:20 3

A. Yes, it's my understanding

17:01:22 4

that you would be able to pull up a

17:01:26 5

cutout and manipulate it, for example,

17:01:28 6

reducing it in size.

17:01:33 7

Q. And after you reduce it in

17:01:36 8

size, you can store that cutout to disk

17:01:38 9

on the Paint Box; correct?

17:01:40 10

A. That's my understanding,

17:01:40 11

yes.

17:01:43 12

Q. And then using the Paint

17:01:45 13

Box browse function, you can browse

17:01:47 14

through cutouts that are stored on

17:01:48 15

disk; correct?

17:01:50 16

A. Yes, that's correct.

17:01:53 17

Q. And that's set forth in the

17:01:59 18

Paint Box manual guide; correct?

17:01:59 19

Strike that.

17:02:00 20

That's set forth in the

17:02:02 21

Paint Box user guide; correct?

17:02:04 22

A. Yes, I have reviewed that

17:02:07 23

document, I believe that -- I know that

17:02:15 24

that is correct, yes.

25

Q. And as far as you know, the

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Paint Box user guide describes the
operations of the Paint Box accurately;
correct?

A. To the best of my knowledge
and understanding, yes, that's correct.

Q. You don't have any reason
to believe that the Paint Box user
guide does not accurately describe the
operations of the Quantel Paint Box;
correct?

A. That's correct.

Q. Now, you reviewed
Mr. Taylor's videotape that he attached
to his expert report; correct?

A. Yes, that's correct.

Q. And do you recall on that
videotape that Mr. Taylor demonstrated
the browse of reduced size cutouts?

A. Yes, I do recall. I believe
that was at the end.

Q. Yes, close to the end,
that's correct.

A. Yes.

Q. Do you recall he also

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demonstrated the browse of full size

17:03:10 3

images that were stored on disk?

17:03:12 4

A. Yes, I do recall.

17:03:14 5

Q. And do you recall that the

17:03:18 6

browse of the reduced size cutouts was

17:03:20 7

faster than the browse of the full size

17:03:21 8

images?

17:03:25 9

A. Yes, I recall that. I would

17:03:27 10

expect that that could be the case.

17:03:30 11

Q. Why is the browse of the

17:03:34 12

cutouts in the Taylor video faster than

17:03:36 13

the browse of the full size images?

17:03:39 14

A. Well, the browse of the full

17:03:45 15

size images requires, as in figure 18

17:03:49 16

of the '776 patent, for every reduced

17:03:53 17

size image that becomes a part of the

17:03:56 18

edit screen or part of the browse, must

17:03:58 19

come from a disk, go through the size

17:04:03 20

reducer, and then be inserted into the

17:04:05 21

output, the frame store for output.

17:04:09 22

And therefore we know that that's the,

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what I'll call the slow browse

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approach, that was prior art, for

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example, to the '121 patent, and we all

J 12:05 1 ALAN CAVALLERANO

17:12:09 2 pulling off the amount of data for
17:12:11 3 these individual pieces.

17:12:14 4 Q. So one of the reasons the
17:12:20 5 Paint Box browse cutouts is faster than
17:12:22 6 the Paint Box browse of full size
17:12:24 7 images, is because the cutouts contain
17:12:27 8 less data than the full size images;
17:12:34 9 correct?

17:12:35 10 A. Yes. Because again, what
17:12:37 11 bogs down the system is needing to pull
17:12:39 12 off the full size image. And in fact
17:12:43 13 that's what is such a benefit of the
17:12:45 14 '121 system, where you don't need to be
17:12:47 15 able -- where you don't need to pull
17:12:50 16 off the full size image and send it
17:12:59 17 through the size reducer each time.

17:13:02 18 Q. Now, you agree that the
17:13:05 19 demonstration that Mr. Taylor showed on
17:13:08 20 his videotape could actually be done on
17:13:10 21 the Quantel Paint Box; correct?

17:13:13 22 A. I have no reason to think
17:13:17 23 that an operator couldn't set up the
17:13:23 24 steps to be able to create that -- to
25 be able to create that effect.

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Q. Now, when the Paint Box

17:14:10 3

browses full size images, the operator

17:14:17 4

can then select one of the resulting

17:14:20 5

reduced size images in the browse in

17:14:22 6

order to obtain the full size image;

17:14:24 7

correct?

17:14:30 8

A. We are talking about for the

17:14:30 9

Paint Box?

17:14:33 10

Q. Yes.

17:14:35 11

A. Yes, that's correct.

17:14:44 12

Q. So in the Paint Box, when

17:14:48 13

an operator selects a reduced size

17:14:50 14

image in the browse in order to obtain

17:14:53 15

a full size image corresponding to that

17:14:57 16

reduced size image, is there a working

17:14:59 17

relationship between the browsed image

17:15:03 18

and its corresponding full sized image?

17:15:06 19

A. For that moment in time,

17:15:09 20

yes. Because the full size image went

17:15:12 21

through -- went through the size

17:15:17 22

reducer and a browse screen was

17:15:23 23

created. And then there would be a way

17:15:28 24

to go from the reduced sized image

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that's in the browse screen to, back to

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the full sized image. And of course
that's really what the prior art
systems all allowed you to do that,
otherwise the notion of browsing really
wouldn't -- it wouldn't work, because
then you wouldn't be -- you wouldn't be
browsing.

Q. Now, sir, we talked earlier
about the embodiment of, Mr. Beaulier's
embodiment of the '121 system, which
was the ESS-3 system. Do you recall
that?

A. I'm not sure when we
discussed that. Sorry.

Q. Fair enough. We may not
have used the term ESS-3.

The system designed by
Mr. Beaulier, in your expert opinion,
maintained a relationship between full
and reduced size images by assigning a
number to the reduced size image that
correlated with the number assigned to
the full size image; correct?

A. In a particular example, one

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ways similar discussion as for the

18:30:40 3

Paint Box.

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MR. SUMMERSGILL: I have

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just a few more questions, then I'll

18:30:46 6

let Mr. Beamer ask some questions.

18:30:49 7

Q. In paragraph 40 of your

18:30:54 8

expert report -- strike that.

18:30:55 9

Do you agree that all of the

18:30:59 10

components of the '121 patent were

18:31:02 11

known in the art?

18:31:03 12

MR. BEAMER: Objection;

18:31:05 13

overly broad.

18:31:06 14

A. Well, what I know is that

18:31:11 15

the '121 patent is an improvement over

18:31:19 16

what was then the state of the art. So

18:31:22 17

what is -- what's improved is the

18:31:28 18

method of operation, and not the actual

18:31:34 19

elements themselves. So that's

18:31:34 20

correct.

18:31:37 21

Q. Now, in paragraph 30 of

18:31:43 22

your expert report, you indicate that

18:31:45 23

the invention would increase the

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marketability of digital cameras.

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Do you see that?

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2 C E R T I F I C A T E

3 STATE OF NEW YORK)

: ss.

4 COUNTY OF NEW YORK)
5

6 I, ERIC J. FINZ, a Shorthand
7 Reporter and Notary Public within and
8 for the State of New York, do hereby
9 certify:

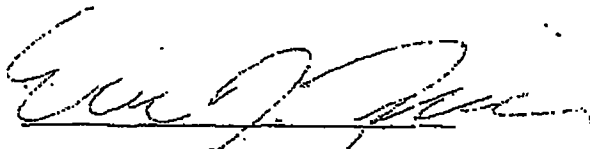
10 That ALAN CAVALLERANO, the witness
11 whose deposition is hereinbefore set
12 forth, was duly sworn by me and that
13 such deposition is a true record of the
14 testimony given by the witness.

15 I further certify that I am not
16 related to any of the parties to this
17 action by blood or marriage, and that I
18 am in no way interested in the outcome
19 of this matter.

20 IN WITNESS WHEREOF, I have hereunto
21 set my hand this 8 day of

22 May, 2006.

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